

Pennington County
2 NE Owanka

09

1710MST

National Weather Service Storm Data and Unusual Weather Phenomena



June 2001 Path Length (Miles) Time Local/ Path Width Number of Estimated Persons Damage **SOUTH DAKOTA, West** SDZ014 Ziebach 03 0 0 1522MST High Wind (G58)^M A cooperative observer measured a non-thunderstorm wind gust 13 miles west of Cherry Creek **Tripp County** 14 NE Winner 1151MST 1152MST 0.5 50 0 06 Tornado (F0) A tornado was on the ground for one minute, but caused no damage. **Tripp County** 7 NW Winner 1202MST 1203MST 50 06 0.5 5K Tornado (F1) A tornado touched down for "about a minute", reported the law enforcement officer who witnessed it. The storm tore the metal roof off a 90 foot hog barn and blew down two old sheds. Two trees, about a foot in diameter, were uprooted. **Tripp County** Winner 1215MST 06 Hail (0.88) **Tripp County** Colome 06 1225MST 0 Hail (0.75) **Lawrence County** 8 W Spearfish 0910MST 0915MST 08 Hail (0.75) **Shannon County** 5 N Pine Ridge 09 0030MST 0100MST 1 1 1K Lightning Two teenagers on horseback encountered a thunderstorm as they were traveling from Pine Ridge to Manderson. One rider told authorities he was knocked unconscious after seeing a bright flash of light. When he awoke, he found his riding partner on the ground, not breathing or moving. One fatality (direct) and one injury occurred from lightning. The horse was also killed. M17CU **Shannon County** 1 N Pine Ridge 09 0145MST 0 $\mathbf{0}$ Hail (1.75) **Pennington County** 4 SW Rapid City to 3 SW Rapid City 09 1605MST 1610MST Hail (2.75) **Pennington County** 4 SE Rapid City 09 1613MST Hail (0.75) **Pennington County Rapid City Arpt** 09 1630MST Hail (0.75) **Pennington County** 1649MST (Rap)Rapid City Arpt 09 Thunderstorm Wind (G69)^M **Pennington County Rapid City** 1650MST Hail (0.75) Two severe thunderstorms moved over nearly the same area within 45 minutes of each other. The first moved across the south side of Rapid City, producing golfball to baseball sized hail and 69 mph wind gusts. The second storm moved across the north side of Rapid City, originating southeast of Black Hawk in Meade County and moving along the Meade/Pennington County line. This second storm produced large hail.

Hail (0.88)



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National Weather Service Storm Data and Unusual Weather Phenomena



June 2001 Time Local/ Path Length Path Width Number of Estimated Persons Damage SOUTH DAKOTA, West **Custer County** 0 0 09 Hermosa to Thunderstorm Wind (G75) 14 E Hermosa 75 mph thundestorm wind gusts were estimated by a spotter in Hermosa and a cooperative observer 14 miles east of Hermosa about four minutes later. **Custer County** 12 E Hermosa 09 1722MST 0 0 Hail (0.75) **Pennington County** Scenic 09 1735MST 1740MST 0 0 Hail (0.75) **Pennington County** Scenic 09 1735MST 0 Thunderstorm Wind (G65) **Shannon County** 5 N Kyle 09 1740MST Thunderstorm Wind (G60) **Jackson County** Cottonwood 09 1745MST Thunderstorm Wind (G70) A storm chaser estimated 70 mph winds from a thunderstorm gust front as he was driving 65 mph. **Jackson County** Thunderstorm Wind (G58)^M **Cedar Pass** 09 1745MST 1 A person at the Badlands National Park Cedar Pass Campground was injured when a table broke and hit him in the head. Time of the wind was estimated from the RAWS observation. **Jackson County** 4 SE Interior 09 1750MST 0 Thunderstorm Wind (G65) **Shannon County** 4 NE Porcupine 1750MST 0 Thunderstorm Wind (G65)^M A RAWS measured a 65 mph thunderstorm wind gust. Time is estimated. **Haakon County** Philip to Philip Arpt 09 1755MST 1800MST 0 3MThunderstorm Wind (G70) Strong winds hit the Philip area. A large grain bin was moved about 15 feet off its foundation and buckled. Part of the elementary school's roof was torn off. On the north side of town, three grain bins were rolled down a hill. The town had extensive tree damage; many streets were blocked by the downed trees and branches. The emergency manager estimated that 70 percent of the houses in town would have to be reshingled. At the airport three miles east of town, part of a hangar collapsed and fell on an airplane. The power went out before the storm reached the airport, so no wind data was available from the ASOS. The sheriff commented that the wind felt stronger than winds measured at 83 mph during a storm a couple of years ago. **Jackson County** Wanblee 1800MST 382.5K **Thunderstorm Wind** A microburst from a thunderstorm produced damaging winds in Wanblee. Nine homes were destroyed. The roofs of seven homes were blown off with major damage to structural walls in other homes. Two persons were treated for injuries at a hospital. One injury (direct) occurred when a door hit a woman during the storm. The cause and extent of the injury to the other person is not known. **Jackson County**

A law enforcement officer estimated a 75 mph wind gust at 605 pm and an 80 mph gust 10 minutes later.

0

0

Thunderstorm Wind (G80)





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crops	June 2001 Character of Storm
SOUTH DAKOTA, W	<u>Vest</u>							
Mellette County White River	09	1845MST			0	0		Thunderstorm Wind (G70)
Todd County 2 SW Parmelee	09	1858MST			0	0		Thunderstorm Wind (G60)
Tripp County Winner	09	2007MST			0	0		Hail (0.75)
Lawrence County 8 S Deadwood	12	0935MST			0	0		Hail (0.75)
Lawrence County 4 S Deadwood	12	0945MST			0	0		Hail (0.75)
Fall River County 10 W Edgemont	12	1545MST			0	0		Funnel Cloud
Fall River County 15 SW Provo	12	1550MST 1555MST			0	0		Hail (1.00)
Fall River County 15 SW Provo	12	1550MST	2	100	0	0		Tornado (F0)
Fall River County 10 S Provo		1605MST nado developed soubserved the tornad			0 ith quarter s	0 sized hail. '	The storm was next s	Tornado (F0) spotted by an off duty NWS employee
Meade County								
Piedmont Fall River County	12	1634MST 1644MST			0	0		Hail (0.75)
15 E Ardmore							parent thunderstorm s observed from 15 m	Tornado (F0) was about 15 miles east of Ardmore, a illes away.
Fall River County Oelrichs	12	1715MST 1725MST			0	0		Hail (2.50)
Fall River County 3 S Oelrichs	12	1725MST 1735MST			0	0		Hail (4.50)
Shannon County 13 W Oglala	12	1744MST 1754MST			0	0		Hail (1.00)
Shannon County 13 W Oglala	12	1744MST			0	0		Thunderstorm Wind (G60)
Shannon County Slim Butte	12 Brief	1810MST tornado reported by	1 y public.	25	0	0		Tornado (F0)
Shannon County Pine Ridge	12	1845MST			0	0		Hail (1.75)
Shannon County 10 W Kyle	12 Thunc	1900MST derstorms winds "st	trong enough	to knock pe	0 ople over" w	0 vere reporte	ed at Sharps Corner	Thunderstorm Wind (G60)
Pennington County 12 N Wall	12 Severa	1930MST al tree limbs were b	olown down.		0	0		Thunderstorm Wind (G58)





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crops	June 2001
SOUTH DAKOTA, W	<u>'est</u>							
Bennett County 5 W Martin	12	2100MST			0	0		Hail (0.88)
Todd County Rosebud	12	2130MST			0	0		Hail (0.88)
Todd County 2 N Mission	12 50 mp	2150MST oh winds accompa	nied the hail.		0	0		Hail (1.00)
Todd County 7 SW St Francis	12	2210MST			0	0		Hail (1.75)
Todd County St Francis	12	2230MST			0	0		Hail (1.75)
Todd County 7 NE Rosebud to 15 NE Rosebud	12	2200MST 2230MST			0	0		Hail (0.75)
	22 ho	uses had windows	broken by the	e hail; seven	houses were	badly dar	naged.	
Tripp County Ideal	12	2307MST			0	0		Hail (0.75)
Tripp County Ideal	13	0005MST			0	0		Thunderstorm Wind $\left(G52\right)^{M}$
Jackson County Potato Creek	14	1055MST 1105MST			0	0	0	Hail (0.88)
	A seve	ere thunderstorm	produced dim	e to nickle si	zed hail.			
Perkins County 9 SW Prairie City	17	0500MST			0	0	0	Hail (1.75)
Ziebach County Dupree	17	0705MST			0	0	0	Hail (1.75)
Ziebach County 23 SE Dupree								Hail (1.75) ern South Dakota just after sunrise. The ed and produced large hail
Jackson County Belvidere to 8 NE Belvidere	17	2215MST 2230MST			0	0	0	Hail (0.75)
Harding County Ludlow	18	0315MST			0	0	0	Thunderstorm Wind $\left(G60\right)^{M}$
Perkins County Lemmon to	18	0420MST			0	0	0	Hail (2.00)
.5 S Lemmon	One in	nch hail was repor	rted in the tow	n of Lemmo	n, with two	inch hail ju	ust south of town.	
Pennington County Sheridan	one w	ho was in water al. The child was	were dazed a	nd confused.	Two injuri	es (direct),	, a one year old c	Lightning In the beach. Six of the people including hild and a teen-age girl, were treated at a an adult woman, the child's grandmother.
Perkins County White Butte	25	0005MST			0	0	0	Hail (1.50)





June 2001 Time Local/ Standard Path Length (Miles) Path Width (Yards) Number of Persons Killed Injured Estimated
Damage
Property Crops

SOUTH DAKOTA, V	<u>West</u>										
Lawrence County 8 W Spearfish	25 2000MST 0 0 0 Wild/Forest Fire 28 1900MST Lightning ignited fires on Bowman Ridge and Crow Peak in Western Lawrence county, near the Wyoming/South Dakota border the evening of June 25. By the morning of the 28th of June, the fire was contained after consuming 30 acres. Three, 20-person fire crews assisted the Bear Ridge Volunteer Fire Dept with the fire. Additionally, a helicopter and tanker plane assisted with several drops of slurry (a flame retardant mix).										
Butte County Newell	27 Strong	1315MST g winds blew the roof off a garage. The "crov	0 ws nest" obs	0 servation to	3K ower at high sci	Thunderstorm Wind (G60) hool football stadium was also blown over					
Harding County 11 NE Redig	27 A wor	1345MST rkshop collapsed during a thunderstorm.	0	0	3K	Thunderstorm Wind (G60)					
Pennington County 10 SW Hill City to 9 SW Hill City	29	1255MST 1258MST	0	0	0	Hail (1.25)					
Todd County Mission	29	1624MST 1634MST	0	0	0	Hail (0.75)					
Todd County 14 S Mission	29	1645MST 1655MST	0	0	0	Hail (0.88)					
Todd County 22 S Mission	29	1700MST 1710MST	0	0	0	Hail (1.00)					
Lawrence County 5 W Spearfish	30	ere thunderstorm moved across Todd County 0443MST rm spotter measured a 58 mph wind gust dur	0	0		Thunderstorm Wind $(G58)^M$					
Pennington County 13 W Rapid City	30	1425MST 1435MST	0	0	0	Hail (1.00)					
Pennington County 2 NE Silver City	30	1435MST 1445MST	0	0		Hail (0.75)					
Pennington County 3 N Sheridan	30	1440MST 1450MST	0	0		Hail (1.25)					
Pennington County Sheridan	30	1500MST 1510MST	0	0	0	Hail (1.75)					
Pennington County Hill City	30	1529MST 1530MST	0	0	0	Hail (1.00)					
Pennington County Hill City	30	1529MST	0	0	0	Thunderstorm Wind $(G70)^M$					
Pennington County 2 W Keystone	30	1530MST 1540MST	0	0		Hail (1.00)					
Pennington County 3 S Hill City to 4 S Hill City	30	1532MST 1555MST	0	0		Hail (1.75)					





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estimated Damage Property C	
SOUTH DAKOTA, W	<u>Vest</u>							
Custer County 6 NNE Custer	30	1548MST 1558MST			0	0	0	Hail (1.75)
Custer County 2 N Blue Bell	30	1550MST 1600MST			0	0	0	Hail (1.75)
Pennington County 5 S Hill City to 6 S Hill City	30	1605MST 1610MST			0	0	0	Hail (2.75)
Custer County Blue Bell	30	1637MST 1647MST			0	0	11 1 7	Hail (0.75)
								s it moved across Pactola Reservoir, Sheridan to buildings, windows, roofs, and vehicles
Lawrence County Cheyenne Crossing	30	1833MST 1835MST			0	0	0	Hail (0.75)
Pennington County 4 NW Rapid City	30 One to	1850MST 1900MST o 1.5 inch hail wa	s reported at t	he Windmill	0 Truckstop	0 in northwe	0 estern Rapid Cit	Hail (1.50)
WYOMING, Northea	<u>ıst</u>				·		•	
Campbell County 12 W Wright	03	1325MST 1330MST			0	0	0	Hail (0.88)
Campbell County 2 NE Echeta	03	1330MST			0	0	0	Thunderstorm Wind $(G73)^{M}$
Campbell County Weston		1400MST ere thunderstorm Echeta (time was e						Thunderstorm Wind (G60) wind gusts to 73 mph measured by the RAWS
Crook County 10 SW Aladdin	04	1750MST	ssimuled) une	downed sev	0	0	in the town of w	Urban/Sml Stream Fld
Weston County Upton	04	2359MST 1750MST 2359MST			0	0	0	Urban/Sml Stream Fld
	rose o	ly heavy rain prod	and 6 inches	of standing	water was i			nties during the evening hours. Small streams 8 pm MST the rain had tapered off, and by
Campbell County 2 NW Echeta	08	1915MST			0	0	0	Hail (0.88)
Campbell County Recluse	08 A sev	1935MST ere thunderstorm	moved across	northern Ca	0 mpbell cour	0 nty. The st	0 orm produced d	Hail (1.00) lime to quarter sized hail.
Campbell County 7 SE Rozet	09	1419MST 1422MST			0	0		Hail (1.00)





Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Per Killed	ber of sons Injured	Estimated Damage Property Crops	June 200 Character of Storm	1	
WYOMING, Northeas	<u>st</u>								_	
Crook County 8 NW Moorcroft to 2 NE Moorcroft	09	1420MST 1430MST			0	0		Hail (1.00)		
Crook County 4 S Moorcroft	09	1426MST			0	0		Hail (0.88)		
		1436MST al thunderstorms of the second secon				g along a su	urface trough was	associated with an upper level shortway	/e.	
Weston County 6 SW Rochelle	09	1530MST			0	0		Thunderstorm Wind ${\rm (G67)}^{\rm M}$		
Weston County Newcastle to 1 S Newcastle	09	1550MST 1600MST	0.5	10	0	2		Tornado (F0)		
	A low pressure system over Wyoming pulled middle 60s dew points into the region all day. A surface trough moved across northeastern Wyoming initiating thunderstorms. A moderate upper level short wave provided support for sustained organized thunderstorms to become severe. Strong instability was noted with CAPE values around 4000 J/kg with moderate shear in the lower 6km of the atmosphere. A thunderstorm developed over Weston County, with 67 mph winds measured at the RAWS southwest of Rochelle (time was estimated) and spawning a tornado over the southeast side of Newcastle. Several reports of tornado sightings and tree damage were received during the 10 minutes the tornado was on the ground. Tree limbs were thrown over 150 feet, breaking windows and downing power lines. Several large trees were uprooted. A facade of a Forest Service shop building collapsed and a carport was destroyed. Two people received minor injuries from flying debris.									
Campbell County 3 S Gillette to	12	1227MCT	2	25	0	0		T. 1 (700)		
5 SE Gillette	An F0	te Fire Dept. repor	d quickly 3 m	iles south of	Gillette. Th	ne tornado v	_	Tornado (F0) for just 13 minutes as it moved southeas where it did minor damage to oil treating		
Campbell County 10 S Gillette to	12	1230MST	9	25	0	0	0	Tornado (F0)		
14 SE Gillette		enforcement report rous power lines.	rted a tornade	o touching o	lown 10 m	iles south	of Gillette. The	storm moved southeast 4 miles downing	ng	
Campbell County 10 S Gillette	12	1240MST			0	0		Hail (1.75)		
Weston County 5 N Osage	12	1335MST			0	0		Hail (1.00)		
Weston County Clareton	12	1409MST			0	0		Hail (1.00)		
Weston County 15 W Osage	12	1415MST			0	0		Hail (0.75)		
Weston County Clareton	12	1416MST			0	0		Hail (1.00)		
Weston County Upton	12	1510MST			0	0		Hail (1.75)		
Weston County Newcastle	12	1522MST			0	0		Hail (1.00)		



Weston County 19 SW Upton

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1915MST

National Weather Service Storm Data and Unusual Weather Phenomena



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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	sons	Estimated Damage Property Crops	Character of Storm	June 2001
WYOMING, Norther	<u>ast</u>								
Weston County 5 N Osage	12	1535MST			0	0		Hail (1.00)	
Weston County 17 S Newcastle	tornad		thunderstorm	s did manag	e to produce	e large hail.	Some of the tornadi	Hail (0.75) yoming. Most storm c storms produced lan	
Campbell County 30 SSE Gillette to 30 SE Gillette	12	1250MST 1340MST	15	25	0	0		Tornado (F1)	
Weston County 25 SW Upton to 13 SW Upton	12	1340MST 1356MST	12	25	0	0		Tornado (F0)	
	lead to sheet enforce	media reports of metal off of shee	numerous to ds and toss p	rnados. The ortable toile	storm did r ts around.	nanage to b This storm	plow the roof off a r crossed into West	then rise back up of new house under con on County at 140 property as it moved as	struction, and tore m mst. Local law
Weston County Rochelle to 7 SE Clareton	contin receiv down' proper	uously tracked this ed does follow the intermittent tend ty. It tipped over	s storm as spo e track of the lency like man a mobil hom	nters were for meso-cyclor my of other e 7 miles no	ocused on ar ne of the pa storms in the ortheast of l	nother torna arent thund he area at t Rochelle ar	do in the county at the erstorm. It is likely this time. This storm and another blown over	Tornado (F1) 7 miles southeast of the same time. A plot that this tornado dispersion did do damage where 7 miles southeast southeast of Clareton	of damage reports played an "up and ten it encountered of Clareton. This
Weston County Newcastle	12	1636MST 1646MST			0	0		Hail (0.75)	
Campbell County 7 N Wright	12	1830MST			0	0		Thunderstorm V	Vind (G52)
Campbell County Gillette Arpt	12	1857MST			0	0		Thunderstorm V	Wind (G54) ^M
Campbell County Echeta	12	1900MST			0	0		Thunderstorm V	Wind (G51) ^M
Campbell County 6 S Rozet	12	1908MST			0	0		Thunderstorm V	Wind (G61)

After tornados and large hail earlier in the day, another area of numerous thunderstorms developed over northeastern Wyoming. These storms produced very gusty outflow winds in contrast to the hail and tornados earlier.

Thunderstorm Wind (G52)





		Time Local/	Path Length	Path Path Number of Length Width Persons		Estin Dar	nated nage	June 2001	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
WYOMING, Northe	<u>ast</u>								
Crook County 3 S Moorcroft	12	1926MST			0	0			Thunderstorm Wind (G52)
Crook County Sundance	12 Severa	1930MST al small trees were	e blown down		0	0			Thunderstorm Wind (G50)
Campbell County 15 S Gillette	27	2015MST 2025MST			0	0	0		Hail (1.75)
Campbell County 6 SE Gillette	27	2020MST 2030MST			0	0	0		Hail (1.00)
Campbell County Wyodak	27	2046MST 2056MST			0	0	0		Hail (1.75)
Crook County		e thunderstorms p	roduced large l	nail across (Campbell Co	ounty.			
16 N Hulett	30 One in	0030MST 0040MST ach diameter hail a	and 1.75 inches	s of rain wa	0 s reported b	0 y a spotter	0 r.		Hail (1.00)
Crook County	20	0<003.507			0				
35 N Sundance	30	0600MST 0800MST			0	0			Flash Flood

Locally heavy rain from thunderstorms overnight produced a flash flood on the Little Missouri River at Government Canyon. A road was washed out and eight feet of water was covering the roadway.